### PATENT COOPERATION TREATY PCT



REO'D 0 5 AUG 2004

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicar  | nte or a   | gent's file reference                       |   |                    |                   |   |  |
|---|--|---|---|--------------------|-------------------|---|--|
| Applicant's or agent's file reference ./.   |  |   | FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |                    |                   |   |  |
| International application No.<br>PCT/PL 02/00056  |  |   | International filing data 24.07.2002  | e (day/moni        | h/year)           | Priority date (day/month/year) 01.07.2002 |  |
| A61K3   | 31/404   | ent Classification (IPC) or bo              | th national classificatio   | n and IPC          |                   |   |  |
|   |  | OW, ZAKLADY FARM                            | ACEUTYCZNE S.A  | A. et al.          |                   |   |  |
| 1. Th   | This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. |   |   |                    |                   |   |  |
| 2. Th   | 2. This REPORT consists of a total of 5 sheets, including this cover sheet.  |   |   |                    |                   |   |  |
|   | been amended and are the basis for this report and/or sheets containing root/ficetion, claims and/or drawings which have   |   |   |                    |                   |   |  |
| Th  | (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.  |   |   |                    |                   |   |  |
| 3. Th   | is repoi   | t contains indications rela                 | ating to the following  | items:             |                   |   |  |
| ı   | ☒  | Basis of the opinion                        | g to the tone timing  | nomo.              | •                 |   |  |
|   |  | Priority                                    |   |                    |                   | •   |  |
| 111   |  |   | ainian with reserve to  |                    |                   |   |  |
| IV  |  | Lack of unity of inventio                   | omion with regard to i  | noveity, in        | entive step ai    | nd industrial applicability               |  |
| ٧   | ×  | -   | der Rule 66.2(a)(ii) w  | vith regard        | to novelty, inv   | rentive step or industrial applicability; |  |
| VI  |  | Certain documents cited                     |   |                    |                   |   |  |
| VII   |  | Certain defects in the in                   | ternational application   | n                  |                   |   |  |
| VIII  | ΙŪ   | Certain observations on                     | the international app   | lication           | •                 |   |  |
| Date of su  | bmissio  | n of the demand                             |   | Date of co         | ompletion of this | report                                    |  |
| 9.01.20   | 04   |   |   | 04.08.2004         |                   |   |  |
| lame and<br>reliminary  | examin   | address of the international ing authority: |   | Authorize          | d Officer         | otochis Petitorian.                       |  |
| European Patent Office<br>D-80298 Munich<br>Tel. +49 89 2399 - 0 Tx: 523656 epmu d<br>Fax: +49 89 2399 - 4465 |  |   | Zimmer,   | B<br>No. +49 89 23 | 99-8600           |   |  |
|   |  |   |   |                    |                   | , pares eagle .                           |  |

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/PL 02/00056

| I. | <b>Basis</b> | of the | re | oort |
|----|--------------|--------|----|------|
|----|--------------|--------|----|------|

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

|    | Des          | Description, Pages   |  |  |  |  |  |  |  |  |
|----|--------------|--|--|--|--|--|--|--|--|--|
|    | 1-4          |  | as originally filed  |  |  |  |  |  |  |  |
|    | Cla          | ims, Numbers   |  |  |  |  |  |  |  |  |
|    | 1-4          |  | as originally filed  |  |  |  |  |  |  |  |
|    | 1-4          |  | as originally fried  |  |  |  |  |  |  |  |
| 2. | Witl<br>lang | With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. |  |  |  |  |  |  |  |  |
|    | The          | These elements were available or furnished to this Authority in the following language: , which is:  |  |  |  |  |  |  |  |  |
|    |              | the language of a tra  | inslation furnished for the purposes of the international search (under Rule 23.1(b)).   |  |  |  |  |  |  |  |
|    |              | the language of publication of the international application (under Rule 48.3(b)).   |  |  |  |  |  |  |  |  |
|    |              | the language of a tra<br>Rule 55.2 and/or 55.3   | inslation furnished for the purposes of international preliminary examination (under 3). |  |  |  |  |  |  |  |
| 3. | Witl<br>inte | With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:                    |  |  |  |  |  |  |  |  |
|    |              | contained in the inte  | rnational application in written form.   |  |  |  |  |  |  |  |
|    |              | filed together with the  | e international application in computer readable form.                                   |  |  |  |  |  |  |  |
|    |              | furnished subsequently to this Authority in written form.  |  |  |  |  |  |  |  |  |
|    |              | furnished subsequently to this Authority in computer readable form.  |  |  |  |  |  |  |  |  |
|    |              | The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.   |  |  |  |  |  |  |  |  |
|    |              | The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.   |  |  |  |  |  |  |  |  |
| 4. | The          | amendments have re   | esulted in the cancellation of:  |  |  |  |  |  |  |  |
|    |              | the description,   | pages:   |  |  |  |  |  |  |  |
|    |              | the claims,  | Nos.:  |  |  |  |  |  |  |  |
|    |              | the drawings,  | sheets:  |  |  |  |  |  |  |  |
| 5. |              | This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).  |  |  |  |  |  |  |  |  |
|    |              | (Any replacement sh report.)   | eet containing such amendments must be referred to under item 1 and annexed to this      |  |  |  |  |  |  |  |
| 6. | Add          | itional observations, if necessary:  |  |  |  |  |  |  |  |  |

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/PL 02/00056

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No:

1-4

1-4

Inventive step (IS)

Yes: Claims

Claims

No: Claims

Claims 1-4

Yes: Claims No: Claims

Industrial applicability (IA)

2. Citations and explanations

see separate sheet



#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Reference is made to the following documents: 1.
  - D1: EP-A-0 519 820 (ADIR) 23 December 1992 (1992-12-23) cited in the application
  - D2: DAMIEN, GERARD ET AL: 'Galenic development and pharmacokinetic profile of indapamide sustained release 1.5 mg' CLINICAL PHARMACOKINETICS (1999), 37(SUPPL. 1), 13-19, XP009004369

#### 2. Novelty

Prior art document D1 discloses sustained release tablets comprising 1.4% (w/w) indapamide as active ingredient as well as lactose (62 %), hypromellose (31 %), polyvidone (3 %) and the lubricants magnesium stearate (1.1 %) and colloidal silica (0.2 %) (ex. 1). The sustained release tablets disclosed in D2, which are prepared by wet granulation using water, differ from the subject-matter of the present application in that the amount of indapamide is below 1.5 % (table 1).

As the tablets disclosed in D1 lack copovidone as excipient and are prepared by wet granulation with a water/ alcohol solution the subject-matter of the present application seems to be new and thus fulfil the requirements of Art. 33(2) PCT in view of the cited prior art.

#### 3. Inventive Step

Although the subject-matter of claim 1 of the present application seems to be new in view of the cited prior art it does not seem to be inventive for the following reasons (Art. 33(3) PCT):

D1 differs from the subject-matter of the present application in the pyrrolidone polymer excipient. Thus, the objective technical problem of the present application seems to be the provision of an alternative sustained release tablet formulation of indapamide.



**EXAMINATION REPORT - SEPARATE SHEET** 

The selection of copovidone (vinylpyrrolidone vinylacetate copolymer) instead of povidone (vinylpyrrolidone polymer) in the compositions of the present application seems to be arbitrary and cannot "prima facie" be regarded as inventive (Art. 33(3) PCT) for a person skilled in the art, in particular, as copovidone is a well known excipient of tablet formulations.

Furthermore, no convincing evidence (eg comparison tests showing an effect not derivable from the closest prior art) has been presented in order to show that an inventive step is necessary to use the claimed subject-matter for the solution of the posed problem.

If an inventive step is to be based on the presence of an unexpected effect this has to be proven by technical evidence; for instance by comparing the composition of Ex. 1 of D1 with the present application.

Dependent claims 2-3 do not appear to contain any additional features which involve an inventive step when combined with the subject-matter of any claim to which they refer. Dependent claims are only allowable when related to a patentable independent claim (Rule 6.4 PCT).

Independent process claim 4 also seems to be obvious for a person skilled in the art in view of the cited prior art document D2 (p. 14, right col.).